

IN THE CLAIMS:

1 1. (Original) A process to restore and refurbish an engine part or accessory, which
2 process comprises:

3 visually inspecting said part or accessory for cracks, erosion, or broken areas;

4 machining or drilling off selected areas of said part or accessory;

5 building up said selected areas of said part or accessory in excess of finished
6 dimensions; and

7 machining said selected areas of said part or accessory to their finished dimensions.

1 2. (Original) A process to restore and refurbish an engine part or accessory as set forth
2 in Claim 1 wherein said engine part is a turbo charger exhaust housing.

1 3. (Withdrawn) A process to restore and refurbish an engine part or accessory as set
2 forth in Claim 1 wherein said engine part is a waste gate.

1 4. (Withdrawn) A process to restore and refurbish an engine part or accessory as set
2 forth in Claim 1 wherein said engine part is a transition housing.

1 5. (Withdrawn) A process to restore and refurbish an engine part or accessory as set
2 forth in Claim 1 wherein said engine part is a bearing housing.

1 6. (Original) A process to restore and refurbish an engine part or accessory as set forth
2 in Claim 1 wherein said step of building up said selected areas by welding is accomplished by
3 application of a plurality of weld beads and said process includes peening with a needle scaler after
4 application of each said weld bead in order to relieve stress.

1 7. (Original) A process to restore and refurbish an airplane engine part as set forth in
2 Claim 1 wherein said engine part includes a tubular portion and said process includes the step of
3 making an opening in a wall of said tubular portion to access an interior of said tubular portion.

1 8. (Original) A process to restore and refurbish an airplane engine part as set forth in
2 Claim 7 including the additional step of filling said opening in said tubular portion by welding after
3 building up any eroded areas in said interior.

1 9. (Original) A process to restore and refurbish an airplane engine part as set forth in
2 Claim 1 including the additional steps of grinding off any broken or cracked flanges on said part and
3 building up each said flange in excess of finished dimensions.

1 10. (Original) A process to restore and refurbish an airplane engine part as set forth in
2 Claim 1 including the additional, initial steps of:

3 cleaning said part with a liquid solution to remove oil and grease residue; and

4 removing carbon and other debris by blasting said part with bead media.

11. (Original) A process to restore and refurbish an airplane engine part as set forth in Claim 1 including the additional step of applying a liquid die penetrant to said part to identify cracks therein prior to welding.

12. (Original) A process to restore and refurbish an airplane engine part as set forth in Claim 1 including the additional step of preheating said part prior to building up by welding.

13. (Original) A process to restore and refurbish a turbo charger exhaust housing, which process comprises:

visually inspecting said turbo charger waste housing for cracks, erosion or broken areas;

machining or drilling off all cracks, eroded or broken areas;

accessing any internal cracks or erosion by making an opening in a wall of a tubular portion to access an interior;

building up selected areas of said housing by welding an excess of finished dimension; and

machining said selected areas of said turbo charger waste housing to their finished dimensions.

14. (Original) A process to restore and refurbish a turbo charger exhaust housing as set forth in Claim 13 wherein said selected areas include an exhaust intake mounting flange, studs in exhaust flange on a wheel mounting side, and an exhaust side surface that the exhaust port mates with an exhaust and a tongue area.

1 15. (Original) A process to restore and refurbish a turbo charger exhaust housing as set
2 forth in Claim 13 including the additional, initial steps of:

3 cleaning said part with a liquid solution to remove oil and grease residue; and

4 removing carbon and other debris by blasting said part with bead media.